

Weekly SARS-CoV-2 Sequencing Summary for the State of Maine

June 18th, 2021

SUMMARY

Critical updates

- 4136 genomes sampled between March 10, 2020 and June 5, 2021 are included in the analysis
- 634 B.1.1.7 (alpha) Variant of Concern have been identified (15.9% increase in new cases since 6/4 update)
- 5 B.1.351 (beta) Variant of Concern have been identified (1 new case since 6/4 update)
- 4 B.1.617.2 (delta) Variant of Interest have been identified (0 new cases since 6/4 update)
- 79 P.1 (gamma) Variant of Concern have been identified (25.4% increase in new cases since 6/4 update)

Notable Updates

- Increases in P.1 mirrors a regional trend observed in neighboring states during the past two months.

IMPORTANCE

- Variants of Concern have increased transmission
- Variants of Concern have increased severity of disease based on hospitalization and case fatality rates
- Variants of Concern have decreased susceptibility to therapeutic agents such as monoclonal antibodies
- Variants of Concern could evade natural or vaccine-induced immunity

CAVEATS and CONCERNS

- Collection dates not available for 55 samples at the time of this report. These samples were recently collected (past 60 days) and captured as “DateMissing” on figure 1.
- County information is missing in this analysis for 45.2% of samples sequenced externally (e.g. CDC).
- Weekly biases exist due to uneven sampling across the state
- Need to reduce location bias by sequencing more samples from varying facilities and laboratories
- Turnaround times need to decrease to inform infection control practices
- Phylogenetic tree has no county metadata. Public release of county or aggregated-county metadata will aid regional analysis
- Phylogenetic tree has no PHI (an internal tree with PHI should be constructed)

REFERENCES

- <https://nextstrain.org/community/tewhey-lab/ncov-ME/latest>
<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/variant-surveillance/variant-info.html>
<https://covariants.org/>
<https://outbreak.info/situation-reports>
<https://nextstrain.org/>
<https://github.com/tewhey-lab/ncov-ME>

Variant	WHO Label	Category	Cumulative Count	March 2021	April 2021	May 2021	June 2021
P.1	Gamma	VOC	79	0.7%	5.1%	4.6%	0.0%
B.1.351	Beta	VOC	5	0.3%	0.2%	0.0%	0.0%
B.1.1.7	Alpha	VOC	634	9.3%	33.9%	40.6%	15.4%
B.1.427	Epsilon	VOC	4	0.1%	0.1%	0.0%	0.0%
B.1.429	Epsilon	VOC	136	9.0%	2.4%	1.5%	0.0%
B.1.617.2	Delta	VOC	4	0.0%	0.1%	0.4%	0.0%
B.1.525	Eta	VOI	8	1.0%	0.1%	0.0%	0.0%
B.1.526	Iota	VOI	860	18.2%	42.3%	50.1%	76.9%
B.1.617.1	Kappa	VOI	0	0.0%	0.0%	0.0%	0.0%
B.1.617.3		VOI	0	0.0%	0.0%	0.0%	0.0%
P.2	Zeta	VOI	100	7.9%	0.7%	0.0%	0.0%
Total VOI/VOC Sequenced			1830	336	696	658	12
Total Cases Sequenced			5593	724	818	677	13

Table 1: Proportion of cases sequenced classified as a variant of interest or concern by month

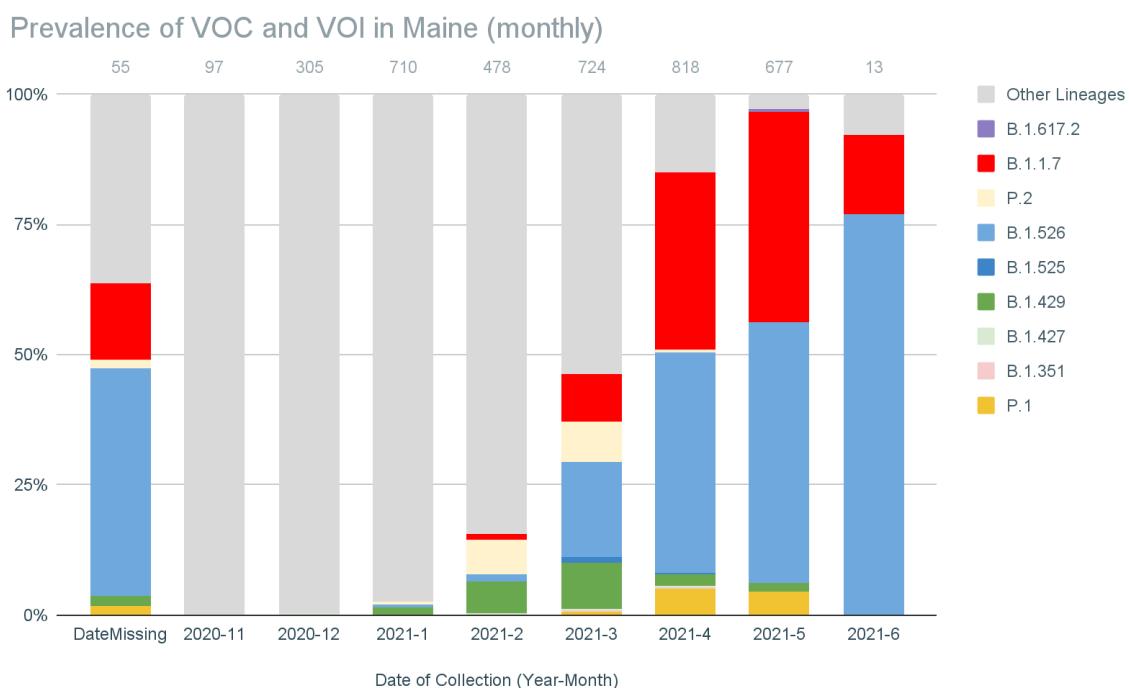


Figure 1: Proportion of samples typed as VOC and VOI by month.

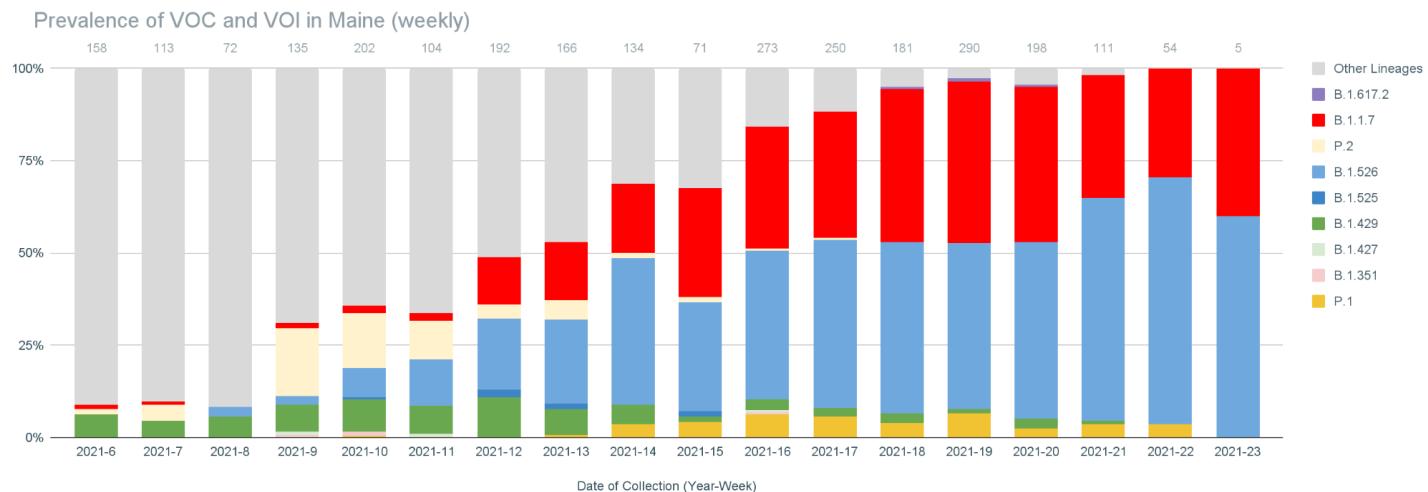


Figure 2: Proportion of samples typed as VOC and VOI by week.

Mutation	Gene	Category	Cumulative Count	March 2021	April 2021	May 2021	June 2021
S:E484K	Spike	Substitution	359	11.9%	15.4%	12.9%	38.5%
S:L452R	Spike	Substitution	432	17.8%	14.8%	18.3%	23.1%

Table 2: Proportion of cases sequenced with substitutions of therapeutic concern

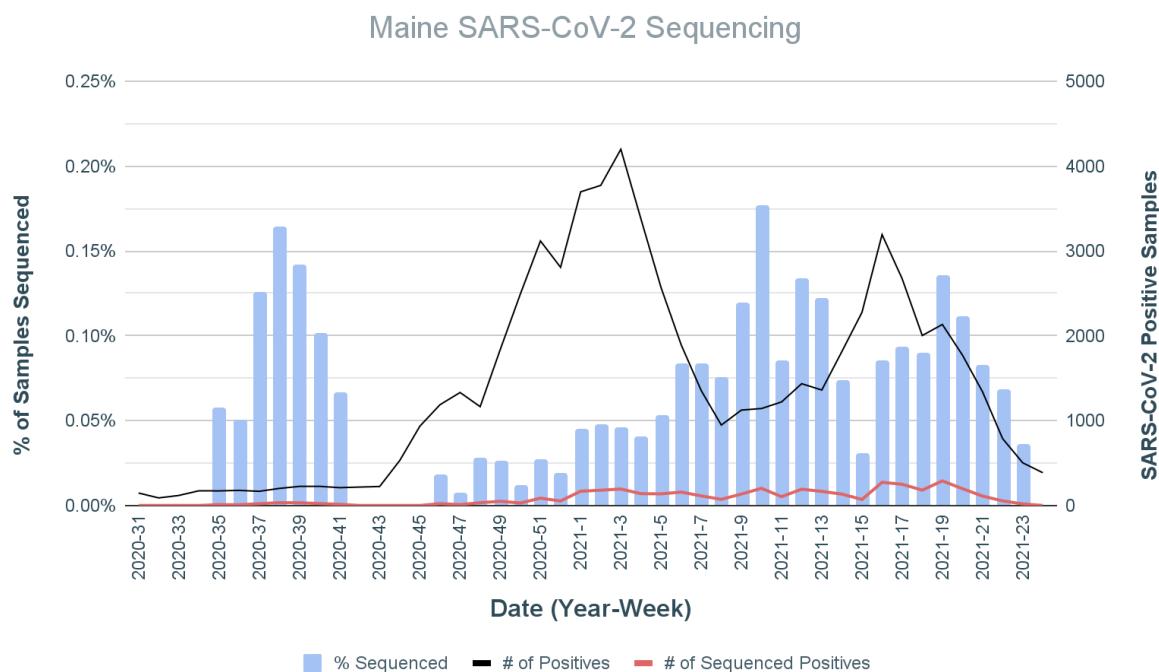


Figure 3: Proportion of COVID-19 positive samples sequenced

Sample Collection Date	JAX	HETL	CDC	Other
Missing Date	55	0	0	0
Pre-Sept 2020	119	0	0	8
Sept 2020	113	0	0	0
Oct 2020	19	0	0	0
Nov 2020	97	0	0	0
Dec 2020	291	0	12	2
Jan 2021	602	0	88	20
Feb 2021	339	13	115	11
Mar 2021	477	16	212	19
Apr 2021	377	83	341	17
May 2021	310	59	298	10
June 2021	8	0	3	2

Table 3: Total number of samples sequenced. Only Sequences passing quality metrics are included. CDC totals include samples from federal contracts (LabCorp, Helix, Broad) and 10 samples requested from HETL every 2 weeks via the NS3 surveillance program. 26 samples are unreported due to missing collection dates.

	Total	05/16/21 - 05/22/21	05/23/21 - 05/29/21	05/30/21 - 06/05/21	06/06/21 - 06/12/21
Total number of cases sequenced	4136	111	54	18	0
Total positive tests by molecular testing	53042	N/A	N/A	N/A	N/A
Total positive tests	75478	1340	788	503	386
Percent of positives sequenced (molecular)	7.80%	-	-	-	-
Percent of positives sequenced (total)	5.48%	8.28%	6.85%	3.58%	0.00%

Table 4: Total proportion of positive tests sequenced.

Supplemental Table 1: VOC/VOI proportion and total counts by county. Sequences obtained through GISAID (CDC, HETL, Other) are not included in the by-county breakdown.

Variant	County	Cumulative % (total count)	March 2021	April 2021	May 2021	June 2021
P.1	ANDROSCOGGIN	1.5% (9)	0% (0)	1.5% (2)	5.8% (7)	0% (0)
P.1	AROOSTOOK	10.0% (13)	0% (0)	15.8% (3)	52.6% (10)	0% (0)
P.1	CUMBERLAND	1.7% (12)	0.7% (1)	7.4% (8)	3.5% (3)	0% (0)
P.1	FRANKLIN	1.3% (1)	7.7% (1)	0% (0)	0% (0)	0% (0)
P.1	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	KENNEBEC	1.5% (4)	0% (0)	4.8% (2)	3.0% (2)	0% (0)
P.1	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	OXFORD	2.1% (4)	1.9% (1)	6.7% (3)	0% (0)	0% (0)
P.1	PENOBCOT	2.1% (8)	0% (0)	9.8% (4)	6.0% (4)	0% (0)
P.1	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	YORK	1.7% (7)	0% (0)	5.5% (5)	2.5% (2)	0% (0)
P.1	Total (w/ county information)	1.8% (58)	0.5% (3)	4.8% (27)	4.9% (28)	0% (0)
P.1	Total	1.9% (79)	0.7% (5)	5.1% (42)	4.6% (31)	0% (0)
B.1.351	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	CUMBERLAND	0.1% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	LINCOLN	4.5% (2)	25.0% (2)	0% (0)	0% (0)	0% (0)
B.1.351	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	YORK	0.2% (1)	0% (0)	1.1% (1)	0% (0)	0% (0)
B.1.351	Total (w/ county information)	0.1% (4)	0.3% (2)	0.2% (1)	0% (0)	0% (0)
B.1.351	Total	0.1% (5)	0.3% (2)	0.2% (2)	0% (0)	0% (0)
B.1.1.7	ANDROSCOGGIN	18.3% (111)	7.4% (4)	48.1% (64)	35.5% (43)	0% (0)
B.1.1.7	AROOSTOOK	6.9% (9)	0% (0)	31.6% (6)	15.8% (3)	0% (0)
B.1.1.7	CUMBERLAND	14.6% (104)	7.8% (11)	49.1% (53)	46.5% (40)	0% (0)
B.1.1.7	FRANKLIN	12.7% (10)	15.4% (2)	80.0% (4)	27.3% (3)	0% (0)
B.1.1.7	HANCOCK	9.3% (7)	9.1% (1)	28.6% (4)	28.6% (2)	0% (0)
B.1.1.7	KENNEBEC	9.6% (26)	4.1% (2)	9.5% (4)	30.3% (20)	0% (0)
B.1.1.7	KNOX	10.4% (5)	0% (0)	33.3% (1)	57.1% (4)	0% (0)
B.1.1.7	LINCOLN	43.2% (19)	0% (0)	62.5% (5)	73.7% (14)	0% (0)
B.1.1.7	OXFORD	14.2% (27)	13.2% (7)	13.3% (6)	50.0% (14)	0% (0)
B.1.1.7	PENOBCOT	12.1% (46)	4.5% (2)	24.4% (10)	50.7% (34)	0% (0)
B.1.1.7	SAGADAHOC	22.2% (12)	5.9% (1)	27.3% (3)	50.0% (8)	0% (0)
B.1.1.7	SOMERSET/PISCATAQUIS	11.0% (18)	3.8% (1)	23.7% (9)	26.9% (7)	0% (0)
B.1.1.7	WALDO	10.2% (5)	0% (0)	50.0% (1)	50.0% (4)	0% (0)
B.1.1.7	WASHINGTON	7.4% (4)	14.3% (1)	0% (0)	50.0% (3)	0% (0)
B.1.1.7	YORK	19.9% (83)	12.8% (15)	37.4% (34)	40.7% (33)	0% (0)
B.1.1.7	Total (w/ county information)	14.8% (486)	8.0% (47)	36.0% (204)	40.8% (232)	0% (0)
B.1.1.7	Total	15.3% (634)	9.3% (67)	33.9% (277)	40.6% (275)	15.4% (2)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	March 2021	April 2021	May 2021	June 2021
B.1.427	ANDROSCOGGIN	0.2% (1)	0% (0)	0.8% (1)	0% (0)	0% (0)
B.1.427	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	CUMBERLAND	0.3% (2)	0.7% (1)	0% (0)	0% (0)	0% (0)
B.1.427	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	HANCOCK	1.3% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	Total (w/ county information)	0.1% (4)	0.2% (1)	0.2% (1)	0% (0)	0% (0)
B.1.427	Total	0.1% (4)	0.1% (1)	0.1% (1)	0% (0)	0% (0)
B.1.429	ANDROSCOGGIN	1.6% (10)	14.8% (8)	0% (0)	1.7% (2)	0% (0)
B.1.429	AROOSTOOK	7.7% (10)	0% (0)	21.1% (4)	31.6% (6)	0% (0)
B.1.429	CUMBERLAND	5.2% (37)	12.1% (17)	2.8% (3)	2.3% (2)	0% (0)
B.1.429	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	KENNEBEC	2.2% (6)	8.2% (4)	2.4% (1)	0% (0)	0% (0)
B.1.429	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	OXFORD	2.1% (4)	7.5% (4)	0% (0)	0% (0)	0% (0)
B.1.429	PENOBCOT	4.7% (18)	22.7% (10)	4.9% (2)	0% (0)	0% (0)
B.1.429	SAGADAHOC	1.9% (1)	5.9% (1)	0% (0)	0% (0)	0% (0)
B.1.429	SOMERSET/PISCATAQUIS	0.6% (1)	3.8% (1)	0% (0)	0% (0)	0% (0)
B.1.429	WALDO	2.0% (1)	5.0% (1)	0% (0)	0% (0)	0% (0)
B.1.429	WASHINGTON	1.9% (1)	0% (0)	16.7% (1)	0% (0)	0% (0)
B.1.429	YORK	3.1% (13)	6.0% (7)	5.5% (5)	0% (0)	0% (0)
B.1.429	Total (w/ county information)	3.1% (102)	9.0% (53)	2.8% (16)	1.8% (10)	0% (0)
B.1.429	Total	3.3% (136)	9.0% (65)	2.4% (20)	1.5% (10)	0% (0)
B.1.525	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	FRANKLIN	3.8% (3)	23.1% (3)	0% (0)	0% (0)	0% (0)
B.1.525	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	OXFORD	2.1% (4)	7.5% (4)	0% (0)	0% (0)	0% (0)
B.1.525	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	YORK	0.2% (1)	0% (0)	1.1% (1)	0% (0)	0% (0)
B.1.525	Total (w/ county information)	0.2% (8)	1.2% (7)	0.2% (1)	0% (0)	0% (0)
B.1.525	Total	0.2% (8)	1.0% (7)	0.1% (1)	0% (0)	0% (0)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	March 2021	April 2021	May 2021	June 2021
B.1.526	ANDROSCOGGIN	22.9% (139)	18.5% (10)	41.4% (55)	57.0% (69)	100.0% (1)
B.1.526	AROOSTOOK	2.3% (3)	0% (0)	15.8% (3)	0% (0)	0% (0)
B.1.526	CUMBERLAND	15.4% (110)	22.0% (31)	30.6% (33)	47.7% (41)	100.0% (2)
B.1.526	FRANKLIN	13.9% (11)	15.4% (2)	20.0% (1)	72.7% (8)	0% (0)
B.1.526	HANCOCK	16.0% (12)	0% (0)	50.0% (7)	57.1% (4)	100.0% (1)
B.1.526	KENNEBEC	31.1% (84)	20.4% (10)	76.2% (32)	63.6% (42)	0% (0)
B.1.526	KNOX	29.2% (14)	76.9% (10)	33.3% (1)	42.9% (3)	0% (0)
B.1.526	LINCOLN	15.9% (7)	0% (0)	37.5% (3)	21.1% (4)	0% (0)
B.1.526	OXFORD	30.0% (57)	26.4% (14)	66.7% (30)	46.4% (13)	0% (0)
B.1.526	PENOBCOT	11.8% (45)	2.3% (1)	39.0% (16)	41.8% (28)	0% (0)
B.1.526	SAGADAHOC	33.3% (18)	11.8% (2)	72.7% (8)	50.0% (8)	0% (0)
B.1.526	SOMERSET/PISCATAQUIS	22.1% (36)	0% (0)	47.4% (18)	69.2% (18)	0% (0)
B.1.526	WALDO	14.3% (7)	15.0% (3)	50.0% (1)	37.5% (3)	0% (0)
B.1.526	WASHINGTON	20.4% (11)	71.4% (5)	33.3% (2)	50.0% (3)	0% (0)
B.1.526	YORK	24.7% (103)	29.1% (34)	31.9% (29)	49.4% (40)	0% (0)
B.1.526	Total (w/ county information)	20.1% (657)	20.8% (122)	42.2% (239)	50.0% (284)	100.0% (4)
B.1.526	Total	20.8% (860)	18.2% (132)	42.3% (346)	50.1% (339)	76.9% (10)
B.1.526.1	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	Total (w/ county information)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	Total	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	Total (w/ county information)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	Total	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	March 2021	April 2021	May 2021	June 2021
B.1.617.2	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	OXFORD	1.1% (2)	0% (0)	2.2% (1)	3.6% (1)	0% (0)
B.1.617.2	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	YORK	0.5% (2)	0% (0)	0% (0)	2.5% (2)	0% (0)
B.1.617.2	Total (w/ county information)	0.1% (4)	0% (0)	0.2% (1)	0.5% (3)	0% (0)
B.1.617.2	Total	0.1% (4)	0% (0)	0.1% (1)	0.4% (3)	0% (0)
B.1.617.3	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	Total (w/ county information)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	Total	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	ANDROSCOGGIN	0.3% (2)	3.7% (2)	0% (0)	0% (0)	0% (0)
P.2	AROOSTOOK	3.8% (5)	14.3% (2)	0% (0)	0% (0)	0% (0)
P.2	CUMBERLAND	0.7% (5)	2.8% (4)	0% (0)	0% (0)	0% (0)
P.2	FRANKLIN	1.3% (1)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	HANCOCK	21.3% (16)	54.5% (6)	0% (0)	0% (0)	0% (0)
P.2	KENNEBEC	0.7% (2)	4.1% (2)	0% (0)	0% (0)	0% (0)
P.2	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	LINCOLN	9.1% (4)	50.0% (4)	0% (0)	0% (0)	0% (0)
P.2	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	PENOBCOT	3.4% (13)	11.4% (5)	4.9% (2)	0% (0)	0% (0)
P.2	SAGADAHOC	3.7% (2)	11.8% (2)	0% (0)	0% (0)	0% (0)
P.2	SOMERSET/PISCATAQUIS	16.0% (26)	53.8% (14)	0% (0)	0% (0)	0% (0)
P.2	WALDO	4.1% (2)	10.0% (2)	0% (0)	0% (0)	0% (0)
P.2	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	Total (w/ county information)	2.4% (78)	7.3% (43)	0.4% (2)	0% (0)	0% (0)
P.2	Total	2.4% (100)	7.9% (57)	0.7% (6)	0% (0)	0% (0)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	March 2021	April 2021	May 2021	June 2021
ANDROSCOGGIN AROOSTOOK CUMBERLAND FRANKLIN HANCOCK KENNEBEC KNOX LINCOLN OXFORD PENOBCOT SAGADAHOC SOMERSET/PISCATAQUIS WALDO WASHINGTON YORK	ANDROSCOGGIN	44.7% (272)	44.4% (24)	91.7% (122)	100.0% (121)	100.0% (1)
	AROOSTOOK	30.8% (40)	14.3% (2)	84.2% (16)	100.0% (19)	0% (0)
	CUMBERLAND	38.1% (271)	46.1% (65)	89.8% (97)	100.0% (86)	100.0% (2)
	FRANKLIN	32.9% (26)	61.5% (8)	100.0% (5)	100.0% (11)	0% (0)
	HANCOCK	48.0% (36)	63.6% (7)	78.6% (11)	85.7% (6)	100.0% (1)
	KENNEBEC	45.2% (122)	36.7% (18)	92.9% (39)	97.0% (64)	0% (0)
	KNOX	39.6% (19)	76.9% (10)	66.7% (2)	100.0% (7)	0% (0)
	LINCOLN	72.7% (32)	75.0% (6)	100.0% (8)	94.7% (18)	0% (0)
	OXFORD	51.6% (98)	56.6% (30)	88.9% (40)	100.0% (28)	0% (0)
	PENOBCOT	34.1% (130)	40.9% (18)	82.9% (34)	98.5% (66)	0% (0)
	SAGADAHOC	61.1% (33)	35.3% (6)	100.0% (11)	100.0% (16)	0% (0)
	SOMERSET/PISCATAQUIS	49.7% (81)	61.5% (16)	71.1% (27)	96.2% (25)	0% (0)
	WALDO	30.6% (15)	30.0% (6)	100.0% (2)	87.5% (7)	0% (0)
	WASHINGTON	29.6% (16)	85.7% (6)	50.0% (3)	100.0% (6)	0% (0)
	YORK	50.4% (210)	47.9% (56)	82.4% (75)	95.1% (77)	0% (0)
Total VOI/VOC Sequenced	Total (w/ county information)	42.8% (1401)	47.4% (278)	86.9% (492)	98.1% (557)	100.0% (4)
Total VOI/VOC Sequenced	Total	44.2% (1830)	46.4% (336)	85.1% (696)	97.2% (658)	92.3% (12)
ANDROSCOGGIN AROOSTOOK CUMBERLAND FRANKLIN HANCOCK KENNEBEC KNOX LINCOLN OXFORD PENOBCOT SAGADAHOC SOMERSET/PISCATAQUIS WALDO WASHINGTON YORK	ANDROSCOGGIN	608	54	133	121	1
	AROOSTOOK	130	14	19	19	0
	CUMBERLAND	712	141	108	86	2
	FRANKLIN	79	13	5	11	0
	HANCOCK	75	11	14	7	1
	KENNEBEC	270	49	42	66	0
	KNOX	48	13	3	7	0
	LINCOLN	44	8	8	19	0
	OXFORD	190	53	45	28	0
	PENOBCOT	381	44	41	67	0
	SAGADAHOC	54	17	11	16	0
	SOMERSET/PISCATAQUIS	163	26	38	26	0
	WALDO	49	20	2	8	0
	WASHINGTON	54	7	6	6	0
	YORK	417	117	91	81	0
Total Cases Sequenced	Total (w/ county information)	3274	587	566	568	4
Total Cases Sequenced	Total	4136	724	818	677	13